

Biterm Topic Model

Nguyễn Bá Cường

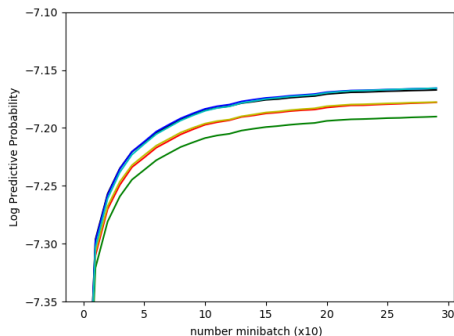
School of Information and Communication Technology Hanoi University of Science and Technology

Data Science Lab , 2017

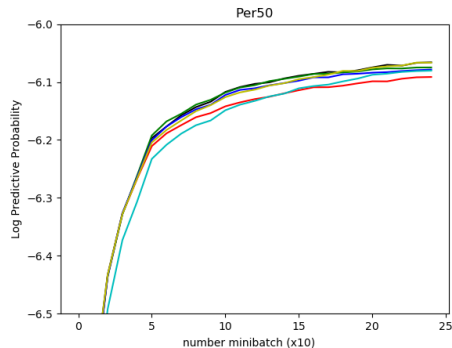
1 Phụ lục

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Tập dữ liệu Tweets, $K=50$, đo đo perplexity



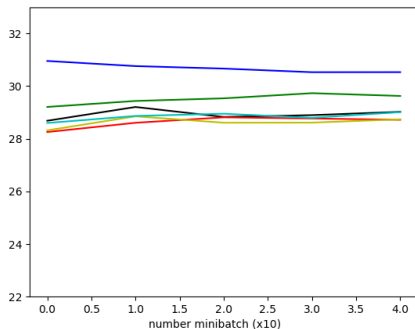
(a) Online Gibbs sampling



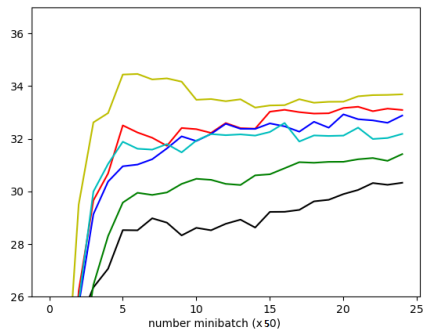
(b) Online VB



Tập dữ liệu Tweets, $K = 50$, sử dụng độ đo NPMI



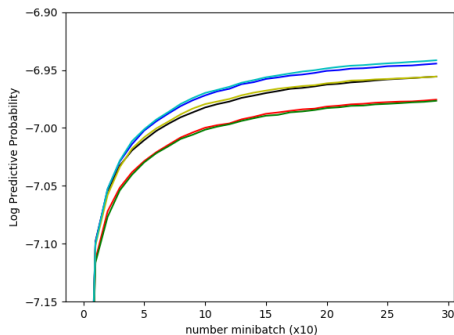
(c) Online Gibbs sampling



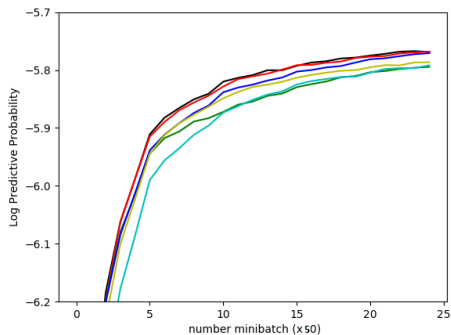
(d) Online VB



Tập dữ liệu Tweets, $K=150$, đo đo perplexity



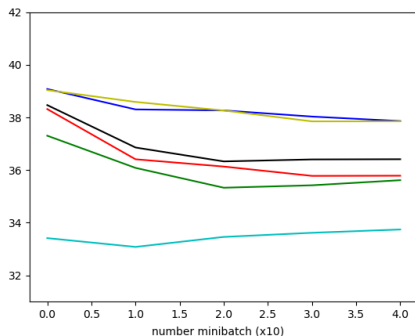
(e) Online Gibbs sampling



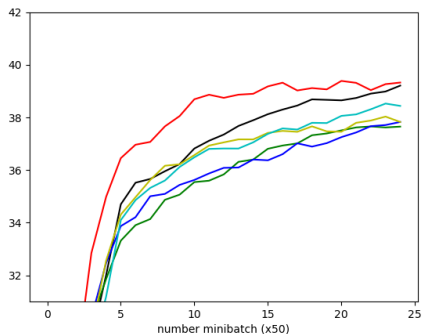
(f) Online VB



Tập dữ liệu Tweets, $K = 150$, sử dụng độ đo NPMI



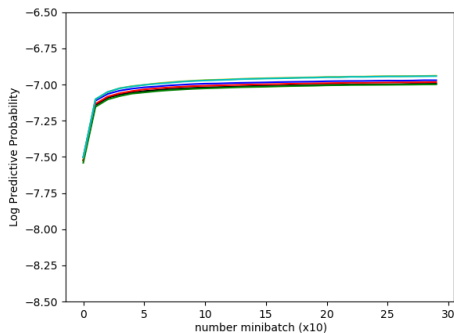
(g) Online Gibbs sampling



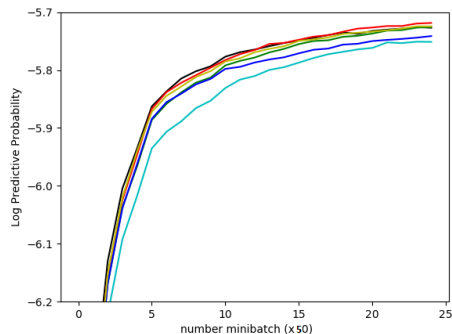
(h) Online VB



Tập dữ liệu Tweets, $K=200$, đo đo perplexity



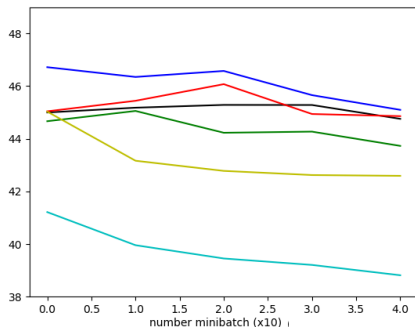
(i) Online Gibbs sampling



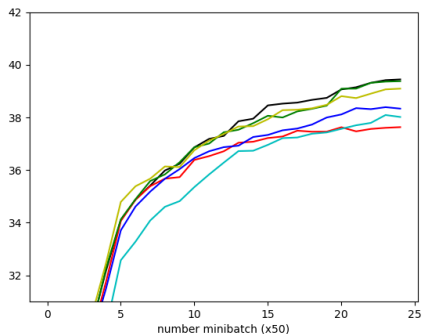
(j) Online VB



Tập dữ liệu Tweets, $K = 200$, sử dụng độ đo NPMI



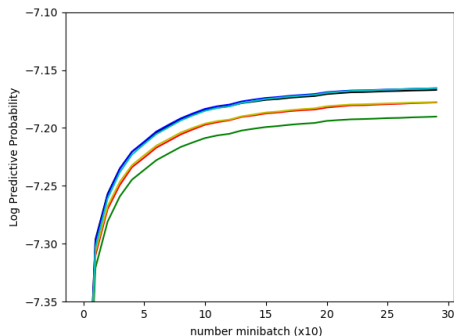
(k) Online Gibbs sampling



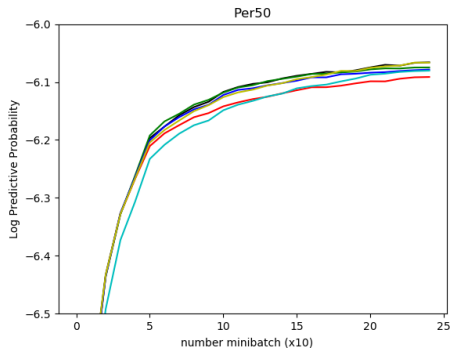
(l) Online VB



Tập dữ liệu Tweets, $K=50$, đo đo perplexity



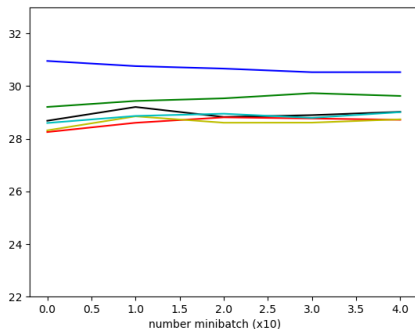
(m) Online Gibbs sampling



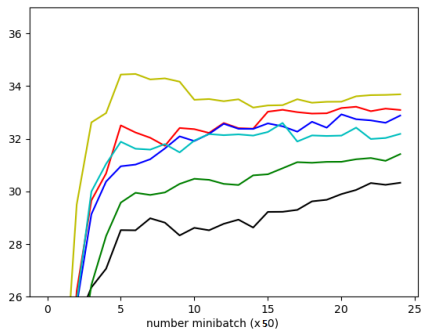
(n) Online VB



Tập dữ liệu Tweets, $K = 50$, sử dụng độ đo NPMI



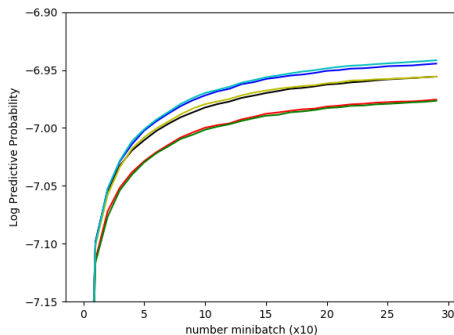
(o) Online Gibbs sampling



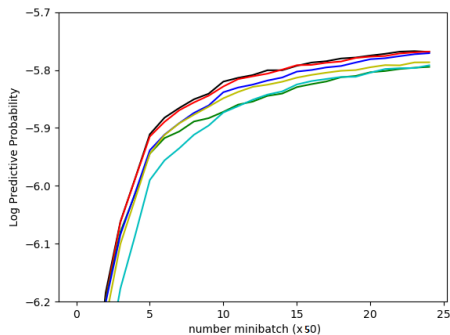
(p) Online VB



Tập dữ liệu Tweets, $K=150$, đo đo perplexity



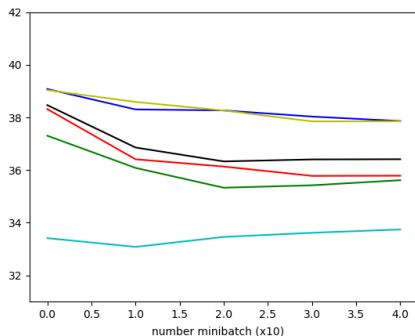
(q) Online Gibbs sampling



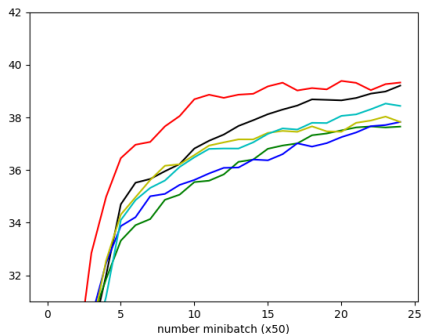
(r) Online VB



Tập dữ liệu Tweets, $K = 150$, sử dụng độ đo NPMI



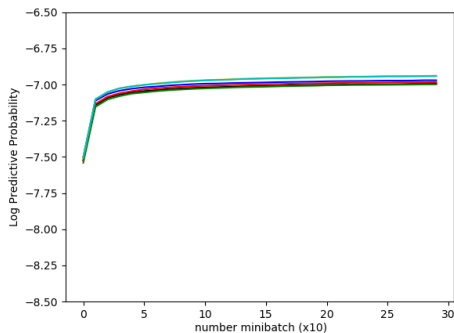
(s) Online Gibbs sampling



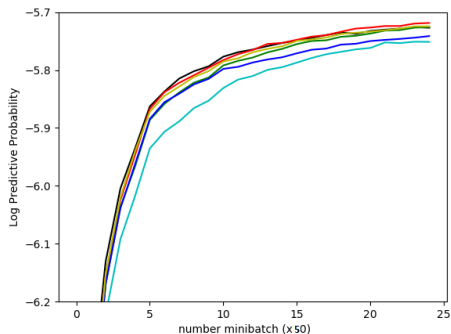
(t) Online VB



Tập dữ liệu Tweets, $K=200$, đo đo perplexity



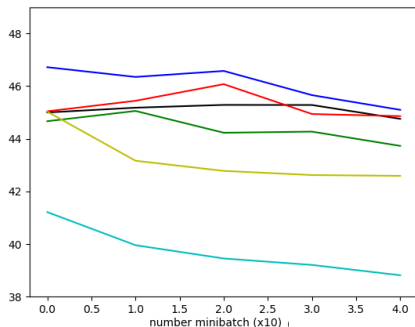
(u) Online Gibbs sampling



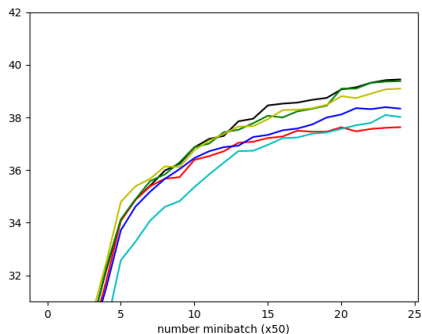
(v) Online VB



Tập dữ liệu Tweets, $K = 200$, sử dụng độ đo NPMI



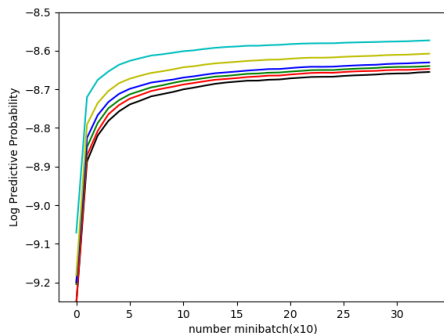
(w) Online Gibbs sampling



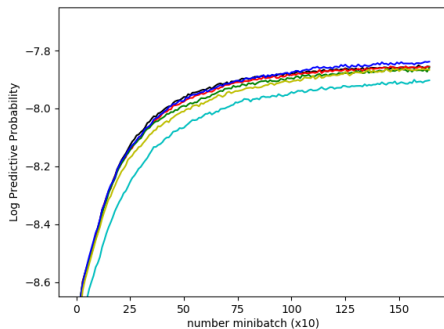
(x) Online VB



Tập dữ liệu NYT, $K=50$, đo đo perplexity



(y) Online Gibbs sampling



(z) Online VB

